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(71) Applicant:

CURITEL COMMUNICATIONS, INC

(72) Inventor:

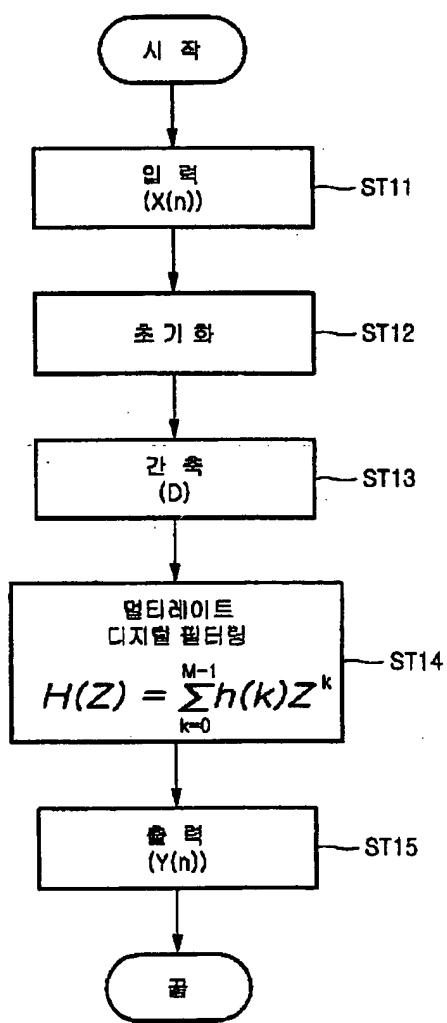
JU, SEONG BEOM

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METHOD FOR CANCELLING NOISES USING MULTI-RATE DIGITAL FILTER IN VOCODER

Representative drawing



(57) Abstract:

PURPOSE: A method for canceling noises using a multi-rate digital filter in a vocoder is provided to improve a noise cancellation function for voice data and the speed of processing voice data by adding a multi-rate digital filtering function to a vocoder separated from the modem of a CDMA terminal.

CONSTITUTION: The analog voice data inputted through a microphone are converted into digital voice data through an A/D converter and transmitted to a vocoder. The vocoder executes decimation for the digital voice data using a decimator(ST11-ST13). Then the vocoder carries out filtering through a multi-rate digital filter and cancels digital noises(ST14-ST15). In case that a signal is

received from a base station, the signal is converted into a digital signal through the A/D converter, demodulated through a modem, and stored in a memory. The vocoder executes interpolation for the digital voice data stored in the memory using an interpolator. Then the vocoder executes multi-rate digital filtering for the interpolation-processed digital voice data in order to cancel noises.

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